

INTERNATIONAL SEARCH REPORT

International application No.
PCT/AU2004/000972

| A. CLASSIFICATION OF SUBJECT MATTER Int. Cl. ⁷ : F03G 6/04, F24J 2/05 According to International Patent Classification (IPC) or to both national classification and IPC | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) DWPI: Keyword search including : (1) power, plant, generate, turbine, tower, chimney, air, gas, solar, sun, heat, energy, etc; (2) power, plant, generate, turbine, tower, chimney, air, gas, helix, spiral, etc (3) hydrogen, H2, water, H2O, solar, sun, heat, energy, glass, transparent, etc | | |
| C. DOCUMENTS CONSIDERED TO BE RELEVANT | | |
| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| X | WO 2001096740 A1 (DRUCKER) 20 December 2001 Whole document | 1 |
| X | GB 2081390 A (CENTRALES ENERGETICAS CICLONICAS S.A.) 17 February 1982 | 1 |
| A | Whole document | 15, 18 |
| X | DE 19821659 A1 (REFIT EV) 18 November 1999 | 1 |
| A | Whole document | 15, 18 |
| <input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C <input checked="" type="checkbox"/> See patent family annex | | |
| * Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family | | |
| Date of the actual completion of the international search 11 November 2004 | | Date of mailing of the international search report 18 NOV 2004 |
| Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA. E-mail address: pct@ipaustalia.gov.au Facsimile No. (02) 6285 3929 | | Authorized officer KURT TOBLER Telephone No : (02) 6283 2469 |

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| C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT | | |
|-------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------|
| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| X | US 5395598 A (PRUEITT) 7 March 1995 Whole document | 1 |
| X | GB 2261705 A (STRATFORD) 26 May 1993 Whole document | 1 |
| X | US 4122675 A (POLYAK) 31 October 1978 Whole document | 1 |
| P,X | DE 10224849 A1 (MASCHINENBAU ASCH) 24 December 2003 Whole document | 1 |
| A | US 4040566 A (CHIARELLI) 9 August 1977 Whole document | 15 |
| A | FR 2307982 A (GRANATA) 12 November 1976 Whole document | 15 |

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Box No. II Observations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)

Box No. III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:
See additional sheet.

1. ☒ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

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Supplemental Box

(To be used when the space in any of Boxes I to VIII is not sufficient)

Continuation of Box No: III

The international application does not comply with the requirements of unity of invention because it does not relate to one invention or to a group of inventions so linked as to form a single general inventive concept. In coming to this conclusion the International Searching Authority has found that there are different inventions as follows:

1. Claim 1 is directed to a power plant having many possible heat sources, having venturis to increase the velocity of the rising air and using this air to generate electricity using turbines. It is considered that a power plant having many possible heat sources, having venturis to increase the velocity of the rising air comprises a first "special technical feature".
2. Claims 2-14, 20-28 are directed to a power plant having means to utilise passing wind to drive air upward within a tower and having computer controlled flaps helping direct flow. It is considered that a power plant having means to utilise passing wind to drive air upward within a tower and having computer controlled flaps helping direct flow comprises a second special technical feature.
3. Claims 15-19 are directed to a solar radiation collector designed to expose a carrier medium to solar radiation, the carrier medium preferably containing man-made compounds. It is considered that a solar radiation collector designed to expose a carrier medium to solar radiation, the carrier medium preferably containing man-made compounds comprises a third special technical feature.

The feature common to all of the claims is the use of solar power to create energy. However this common feature is generic in the art. Consequently the common feature does not constitute "a special technical feature" within the meaning of PCT Rule 13.2, second sentence, since it makes no contribution over the prior art. Since there exists no other common feature which can be considered as a special technical feature within the meaning of PCT Rule 13.2, second sentence, no technical relationship within the meaning of PCT Rule 13 between the different inventions can be seen. Consequently the claims do not satisfy the requirement of unity of invention a posteriori.

INTERNATIONAL SEARCH REPORT

Information on patent family members

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This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

| Patent Document Cited in Search Report | | | | Patent Family Member | | | |
|---------------------------------------------------------------------------------------------------------------------------|----------|----|----------|----------------------|------------|----|---------|
| WO | 0196740 | AU | 67224/01 | BR | 0111846 | CA | 2412686 |
| | | EP | 1290342 | US | 2003217551 | | |
| GB | 2081390 | CH | 655157 | DE | 3128936 | ES | 8301330 |
| | | FR | 2487441 | US | 4452046 | | |
| DE | 19821659 | | | | | | |
| US | 5395598 | AU | 48439/93 | BR | 9305633 | CA | 2123229 |
| | | EP | 0612268 | OA | 9956 | US | 5284628 |
| | | US | 5477684 | US | 5483798 | WO | 9405398 |
| GB | 2261705 | | | | | | |
| US | 4122675 | | | | | | |
| DE | 10224849 | | | | | | |
| US | 4040566 | | | | | | |
| FR | 2307982 | | | | | | |
| Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001. | | | | | | | |
| END OF ANNEX | | | | | | | |